

# **PUBLIC NOTICE**

**PERMIT APPLICATION:** NRS # 06.156

**APPLICANT:** Hamilton County Department of Education  
6703 Bonny Oaks Drive  
Chattanooga, Tenn. 37421  
423-209-5600

**LOCATION:** Citico Creek and unnamed tributary, Orchard Knob School, corner of East Third Street and North Willow Street, Chattanooga, Hamilton County, 35.0396°N, -85.2709°W

**WATERSHED DESCRIPTION:** The project site is located in the Middle Tennessee-Chickamauga watershed (HUC TN06020001). Citico Creek is assessed as not supporting its recreational and fish and aquatic life classified surface water uses and listed as impaired by nutrients, *E. coli*, low dissolved oxygen, and habitat loss. The classified uses for Citico Creek and its tributaries are fish and aquatic life, recreation, livestock watering and wildlife, and irrigation. Both streams are channelized, concrete-lined, mowed and lack significant woody riparian zone. The surrounding land use is residential and light commercial.

(Photos of the existing stream are included on the Internet version of this notice at <http://www.state.tn.us/environment/wpc/wpcppo/arap>).

## **PROJECT DESCRIPTION:**

The applicant proposes to relocate approximately 860 linear feet of stream for the purpose of constructing a new Orchard Knob Elementary School on the lot adjacent to the existing school. There will also be two road crossings totaling 90 linear feet and the relocation of one 10" sanitary sewer line.

The stream relocation involves moving 775 linear feet of Citico Creek and 85 linear feet of the unnamed tributary into one 903 linear foot channel. The proposed channel will be 8 to 12 feet wide, with natural, site-encountered substrate. Within the channel there will be rock weirs installed to promote hydrological and substrate diversity. The banks and side slopes will be seeded and covered with turf reinforcement matting. Two alternating rows of trees will be planted on 15-foot centers along the stream including: red maple, river birch, black walnut, tulip poplar, sycamore and pin oak.

The road crossings will also be two box 6'x12' culverts installed 4" below stream be grade on the new channels (42 and 48 feet long, respectively).

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activity will not result in degradation to water quality.

**PERMIT COORDINATOR:** Juliana W. Kyzar

**USGS TOPOGRAPHIC QUADRANGLE:** Chattanooga Quad 105 SE

Photo 1:

Citico Creek entering the Orchard Knob Elementary School property at North Willow Street.

Facing Southeast



Photo 2:

Citico Creek running across the Orchard Knob School property in the location of the proposed new school.

Facing West



**Photo 1 & 2:** Photos provided by applicant, taken 5/17/06

Photo 3:

Unnamed tributary entering Citico Creek.

Facing West



Photo 4:

Citico Creek leaving the Orchard Knob School property at East 3rd Street.

Facing North



**Photos 3& 4:** Photos provided by applicant, take 5/17/06



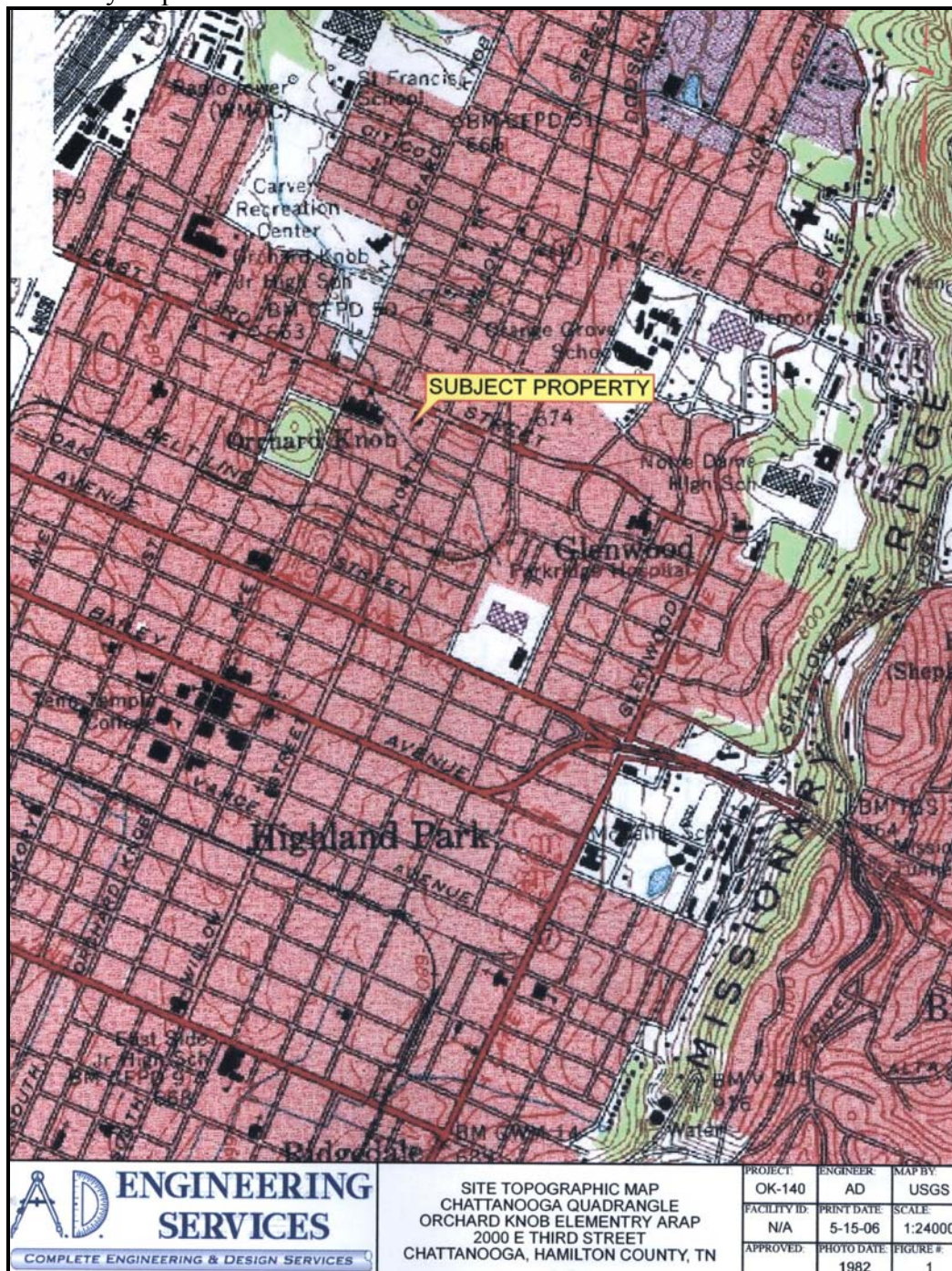


Figure 1: USGS topographic map with project area indicated.

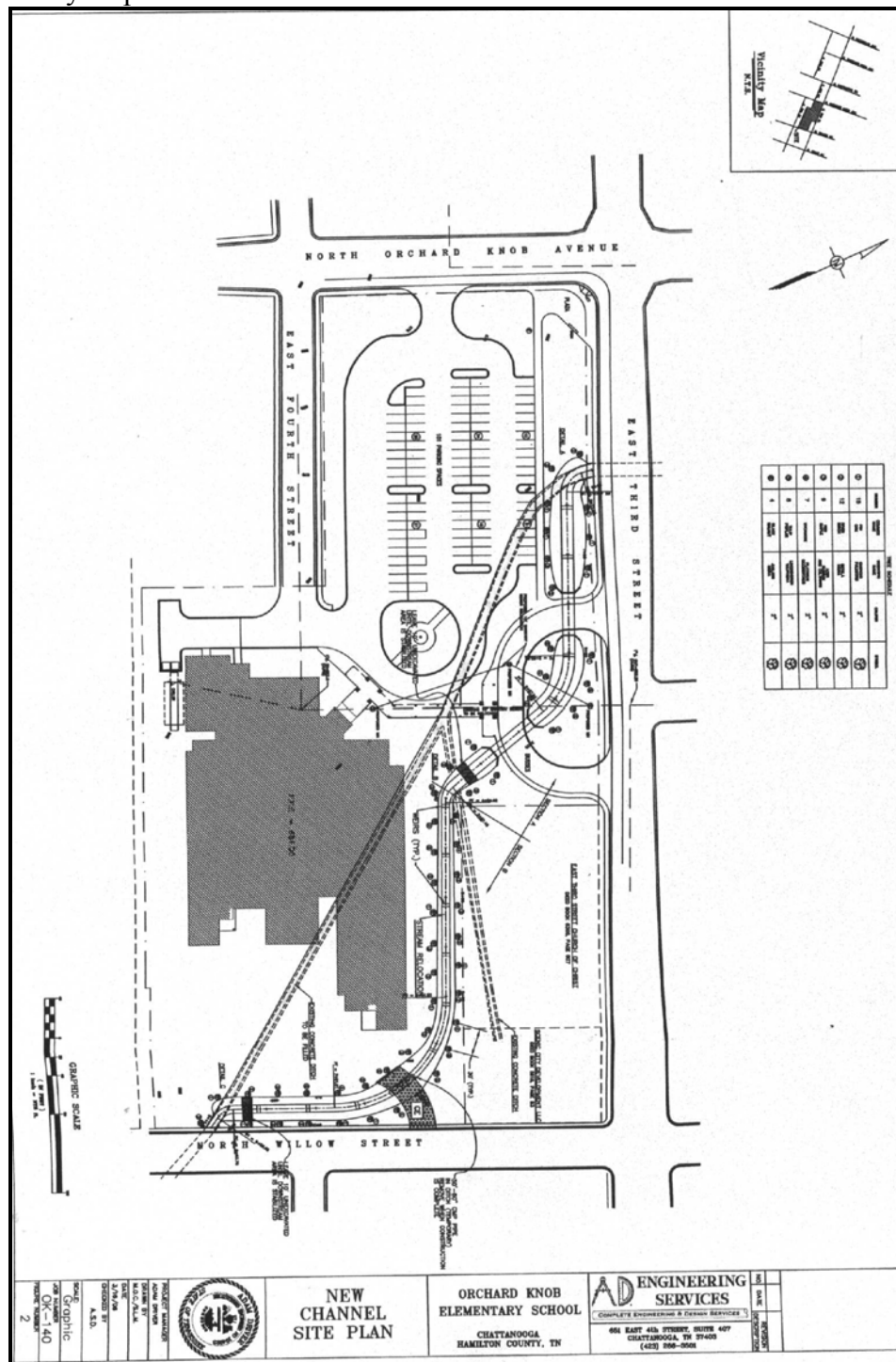


Figure 2: Site plan

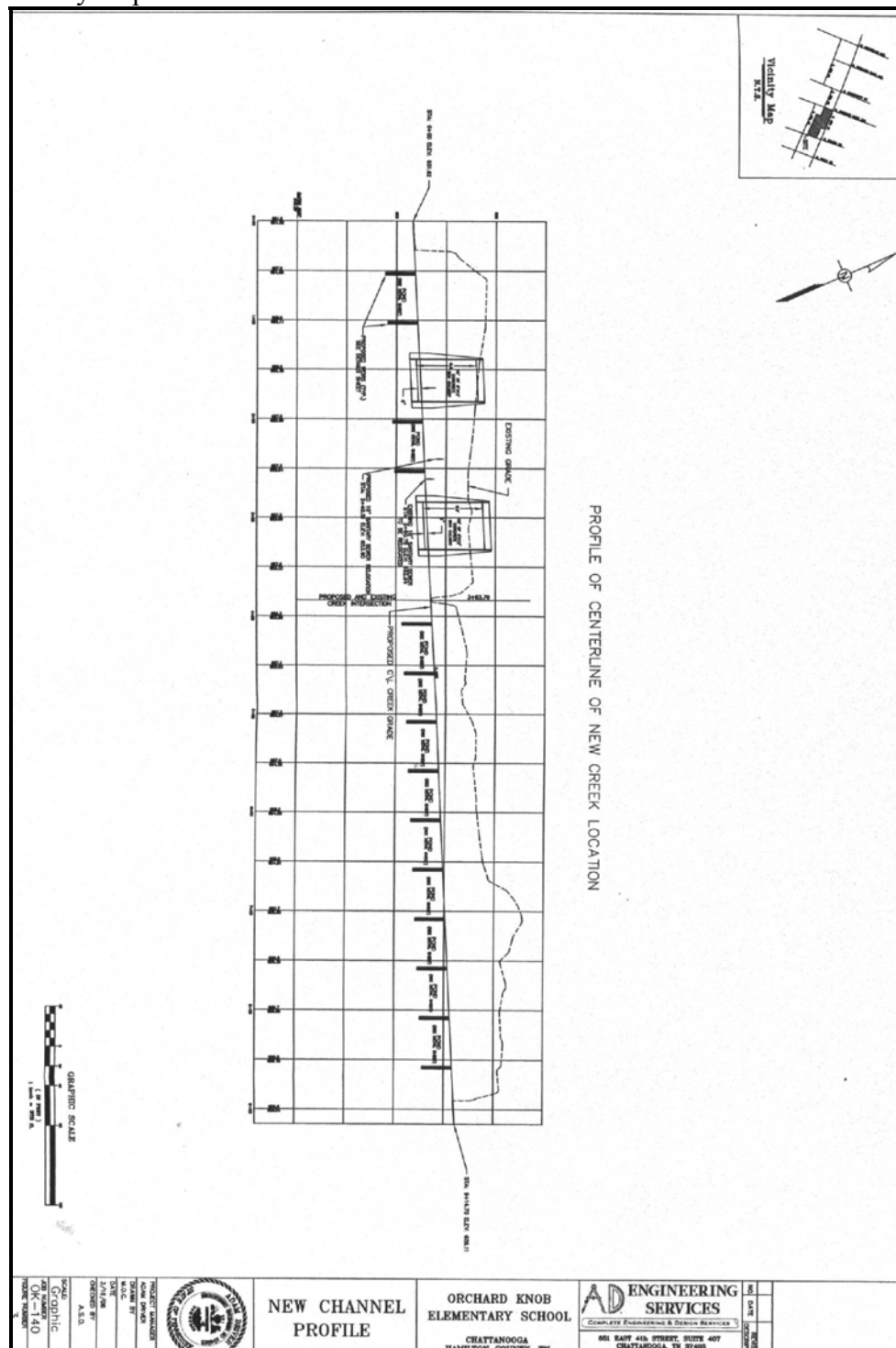
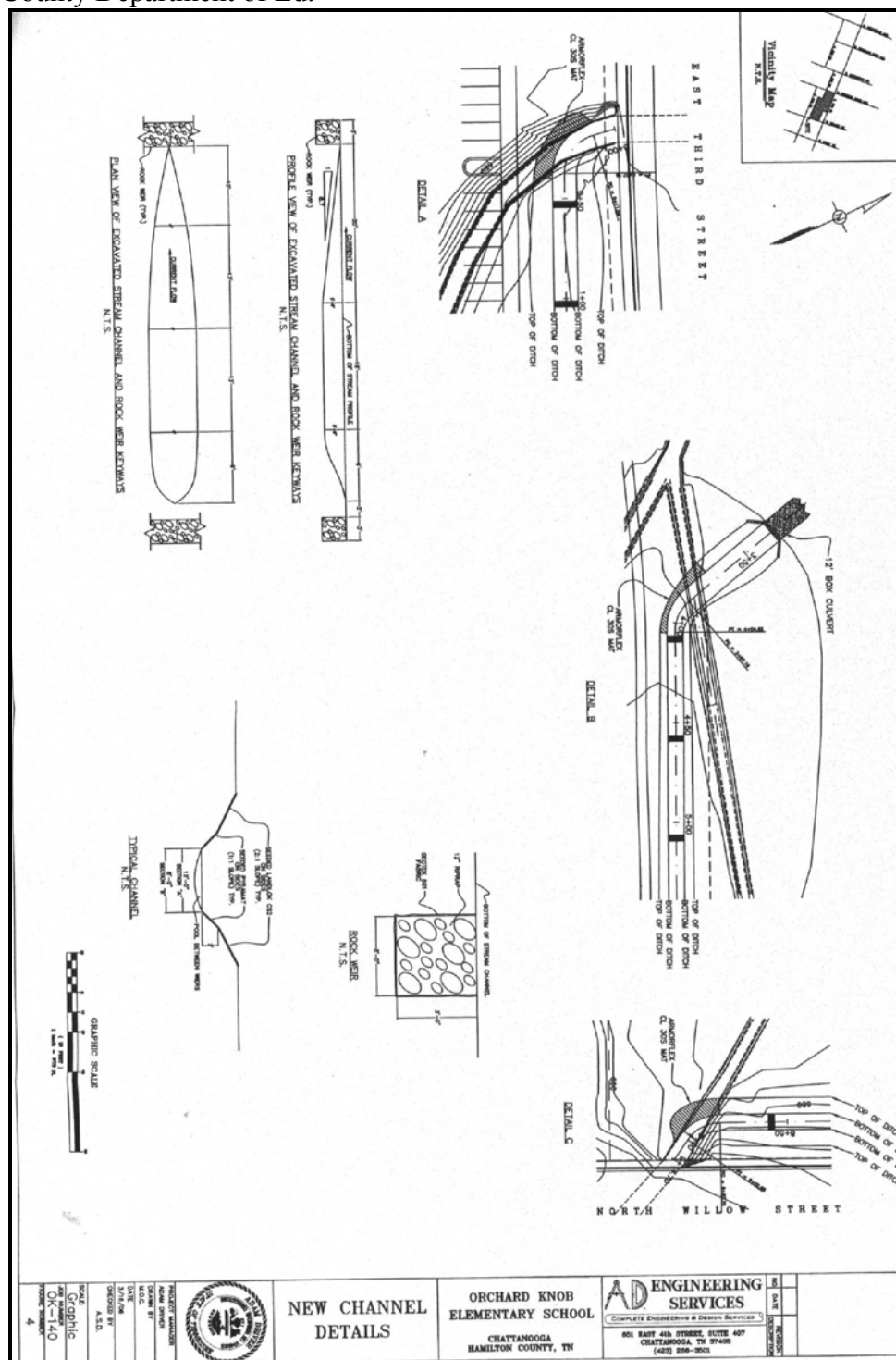


Figure 3: New channel profiles





**Figure 4: New channel details**